

Historic, archived document

Do not assume content reflects current scientific knowledge, policies, or practices.

ARS-71-27-6
May 1968

U. S. DEPT. OF AGRICULTURE
NATIONAL AGRICULTURAL LIBRARY

AUG 14 1968

UNITED STATES DEPARTMENT OF AGRICULTURE
Agricultural Research Service

CURRENT SERIAL RECORDS

CHEMICALLY MODIFIED OIL PRODUCTS AND INDUSTRIAL USES
A LIST OF PUBLICATIONS AND PATENTS FOR 1967

of the
Northern Utilization Research and Development Division
Peoria, Illinois

PUBLICATIONS

Publications marked (*) are not available for distribution.
When requesting specific reprints, please order by number.

- 2111 ADVANCES IN RESEARCH ON THE USE OF SOYBEAN OIL.
J. C. Cowan.
Proc. 1965 Cottonseed Processing Clinic, held at New Orleans, La.,
February 8-9, 1965. South. Util. Res. Devlpmt. Div., Agr. Res.
Serv., U.S. Dept. Agr., ARS-72-49, pp. 58-65. October 1966.
- 2120 ACETALIZATION OF ALDEHYDE OILS BY CATALYSIS WITH CATION-EXCHANGE
RESINS.
R. E. Beal, D. E. Anders, and L. T. Black.
J. Amer. Oil Chem. Soc. 44(1): 55-58. January 1967.
- 2122 CONJUGATION OF SOYBEAN OIL BY DECOMPOSITION OF ITS IRON TRICARBONYL
COMPLEX WITH CARBON MONOXIDE.¹
E. N. Frankel and S. Metlen.¹
J. Amer. Oil Chem. Soc. 44(1): 37-39. January 1967.
- 2142 POTENTIAL SYNTHETIC LUBRICANTS: DIOL ESTER OF C₁₈-SATURATED CYCLIC
ACIDS.
J. P. Friedrich and L. E. Gast.
J. Amer. Oil Chem. Soc. 44(2): 110-112. February 1967.

¹ Pittsburgh Coal Research Center, Pittsburgh, Pa.

- 2143 OXAZOLINE POLYESTER COATING RESINS.
W. J. DeJarlais, L. E. Gast, and J. C. Cowan.
J. Amer. Oil Chem. Soc. 44(2): 126-128. February 1967.
- 2148 NYLON 1313: SYNTHESIS AND POLYMERIZATION OF MONOMERS.
Joseph L. Green, Jr.,² Everett L. Huffman,² Robert E. Burks, Jr.,²
William C. Sheehan,² and I. A. Wolff.
J. Polym. Sci., Part A-1, 5(2): 391-394. February 1967.
- 2152 LINSEED OIL EMULSIONS FOR PROTECTING CONCRETE.
W. L. Kubie and J. C. Cowan.
J. Amer. Oil Chem. Soc. 44(3): 194-196. March 1967.
- 2153 REACTIONS OF ALDEHYDE OILS AND METHYL AZELALDEHYDATE WITH POLYOLS.
R. E. Sharpe,³ D. A. Berry,³ E. H. Pryde, and J. C. Cowan.
J. Amer. Oil Chem. Soc. 44(3): 167-170. March 1967.
- 2166 EMULSIFICATION OF LINSEED OIL. I. EFFECTS OF OIL VISCOSITY, TEMPERATURE, TIME OF AGITATION, AND AGE OF EMULSIONS ON PARTICLE SIZE DISTRIBUTION.
L. H. Princen, J. A. Stolp, and W. F. Kwolek.⁴
J. Paint Technol. 39(507): 182-187. April 1967.
- 2167 EMULSIFICATION OF LINSEED OIL. II. FITTING THE TRUNCATED LOG NORMAL DISTRIBUTION WITH COINCIDENCE CORRECTIONS TO COULTER COUNTER DATA.
W. F. Kwolek,⁴ L. H. Princen, and R. L. Greenspun.⁵
J. Paint Technol. 39(507): 188-190. April 1967.
- 2178 CROSSLINKING OF POLY(ESTER- AND AMIDE-ACETALS): PRELIMINARY STUDIES WITH GLASS SUBSTRATES.
W. R. Miller, E. H. Pryde, C. M. Thierfelder, E. S. Mooberry,
and J. C. Cowan.
J. Paint Technol. 39(509): 389-393. June 1967.
- 2180 C₁₈-SATURATED CYCLIC ACIDS FROM LINSEED OIL: A STRUCTURAL STUDY.
J. P. Friedrich.
J. Amer. Oil Chem. Soc. 44(4): 244-248. April 1967.

² Southern Research Institute, Birmingham, Ala.

³ Battelle Memorial Institute, Columbus, Ohio.

⁴ USDA Biometrical Services, Peoria, Ill.

⁵ USDA Biometrical Services, Beltsville, Md.

- 2185 BRASSYLIC ACID FROM OZONOLYSIS OF ERUCIC ACID.
H. J. Nieschlag, I. A. Wolff, T. C. Manley,⁶ and R. J. Holland.⁶
Ind. Eng. Chem., Prod. Res. Develop. 6(2): 120-123. June 1967.
- 2192 MIXED ESTERS OF BRASSYLIC ACID AS PLASTICIZERS FOR POLY(VINYL CHLORIDE).
H. J. Nieschlag, W. H. Tallent, I. A. Wolff, W. E. Palm,⁷ and
L. P. Witnauer.⁷
Polym. Eng. Sci. 7(1): 51-54. January 1967.
- 2195 DETERMINATION OF UNSATURATION IN OILS IN THE PRESENCE OF SATURATED
ALDEHYDES.
L. T. Black and R. E. Beal.
Lipids 2(3): 280-282. May 1967.
- 2197* HYDROLYSIS POLYMERIZATION.
W. R. Miller.
In "The Encyclopedia of Chemistry," 2nd ed., ed. George L. Clark,
p. 531. New York. 1966.
- 2203 ACETOXYLATION OF METHYL OLEATE WITH A RESIN CATALYST.
L. T. Black and R. E. Beal.
J. Amer. Oil Chem. Soc. 44(5): 310-312. May 1967.
- 181-C COPOLYMERIZATIONS OF ESTERS AND GLYCERIDES OF UNSATURATED C₁₈ FATTY
ACIDS WITH ETHYL ACRYLATE AND ACRYLONITRILE.
Frank R. Mayo and Constance Willard Gould.
Stanford Research Institute, Menlo Park, Calif.⁸
J. Amer. Oil Chem. Soc. 44(3): 178-184. March 1967.
- 143-F SOME REACTIONS OF UNSATURATED FATTY ACIDS AND THEIR DERIVATIVES IN
MOLTEN ALKALIES.
M. F. Ansell, A. N. Radziwill, D. J. Redshaw, I. S. Sheperd,
D. Wallace, and B. C. L. Weedon.
Queen Mary College, London, England.⁹
J. Agr. Food Chem. 13(5): 399-401. September-October 1965.
- 2215 CHEMICALLY MODIFIED OIL PRODUCTS AND INDUSTRIAL USES. A LIST OF
PUBLICATIONS AND PATENTS FOR 1966.
North. Util. Res. Devlpmt. Div., Agr. Res. Serv.,
U.S. Dept. Agr., ARS-71-27-5, 3 pp. June 1967. [Processed]

⁶ The Welsbach Corporation, Philadelphia, Pa.

⁷ Eastern Utilization Research and Development Division, Philadelphia, Pa.

⁸ Report of research work done by an outside agency under contract with the
U.S. Department of Agriculture and supervised by the Northern Division.

⁹ Report of research work supported with funds provided by the U.S. Department
of Agriculture under the authority of U.S. Public Law 480, 83rd Congress, and
sponsored by the Northern Division.

- 2251 CATIONIC LINSEED OIL EMULSION PAINTS.
L. H. Princen and J. A. Stolp.
J. Paint Technol. 39(513): 616-620. October 1967.
- 2267 DIESTER PLASTICIZERS FROM MIXED CRAMBE DIBASIC ACIDS.
H. J. Nieschlag, W. H. Tallent, I. A. Wolff, W. E. Palm,⁷ and
L. P. Witnauer.⁷
Ind. Eng. Chem., Prod. Res. Develop. 6(4): 201-204. December 1967.
- 2269 ALKYL VINYL ESTERS OF BRASSYLIC (TRIDECANEDIOIC) ACID.
Shu-Pei Chang, Thomas K. Miwa, and Ivan A. Wolff.
J. Polym. Sci., Part A-1, 5(10): 2547-2556. October 1967.
- 2276 SYNTHESIS OF VINYL THREO-9,10-THREO-12,13-TETRAHYDROXYSTEARATES.
John L. O'Donnell, L. E. Gast, J. C. Cowan, W. J. DeJarlais,
and G. E. McManis.
J. Amer. Oil Chem. Soc. 44(11): 652-655. November 1967.
- 2289* CRAMBE VEGETABLE OIL.
Ivan A. Wolff.
In "Encyclopedia of Basic Materials for Plastics," eds. Herbert R.
Simonds and James M. Church, pp. 129-130. New York. 1967.
- 177-F ESTIMATION OF CARBOXYL, SULPHATE & SULPHONATE GROUPS BY DIRECT
TITRIMETRY.
G. Venkateswara Rao and K. T. Achaya.
Regional Research Laboratory, Hyderabad, India.⁹
Indian J. Chem. 5(4): 150-152. April 1967.
- 183-F CRYSTALLIZATION OF LINSEED OIL FATTY ACIDS FROM ACETONITRILE.
Erkki Uksila and Inkeri Lehtinen.
University of Helsinki, Helsinki, Finland.⁹
Acta Chem. Scand. 20(6): 1645-1650. 1966.
- 184-F SEPARATION OF UNSATURATED FATTY ACIDS OF SOYBEAN AND LINSEED OILS
BY CRYSTALLIZATION AND SUBSEQUENT LIQUID-LIQUID EXTRACTION.
Erkki Uksila, Matti Varesmaa, and Inkeri Lehtinen.
University of Helsinki, Helsinki, Finland.⁹
Acta Chem. Scand. 20(6): 1651-1657. 1966.
- 185-F FRACTIONATION OF SOYBEAN OIL FATTY ACIDS AS FREE ACIDS AND "ACID"
SODIUM SOAPS BY CRYSTALLIZATION FROM METHANOL AND ACETONE.
Erkki Uksila, Inkeri Lehtinen, and Paavo Roine.
University of Helsinki, Helsinki, Finland.⁹
Suomen Kemistilehti B 39(10): 185-189. 1966.

186-F FACTORS CONTRIBUTING TO THE CRYSTALLIZATION OF FATTY ACIDS AND
"ACID" SOAPS OF LINSEED OIL.
Erkki Uksila, Inkeri Lehtinen, and Paavo Roine.
University of Helsinki, Helsinki, Finland.⁹
Suomen Kemistilehti B 39(10): 190-192. 1966.

PATENTS

/These patents are assigned to the Secretary of Agriculture.
Printed copies of patents may be obtained only by purchase
(50 cents each) from the Commissioner of Patents, U.S. Patent
Office, Washington, D.C. 20231. Order by number, do not send
stamps./

POLYHYDRIC PHENOL-MODIFIED FATTY MEDIA AND IRON SURFACES CHELATED THEREWITH.
Raymond Noel Faulkner and Leonard Alfred O'Neill.
U.S. Patent 3,304,276. February 14, 1967.

IRON BUTOXIDE IMPROVED POLYHYDRIC PHENOL MODIFIED ALKYD COMPOSITIONS.
Raymond Noel Faulkner and Leonard Alfred O'Neill.
U.S. Patent 3,321,320. May 23, 1967.

PROCESS FOR OBTAINING PURE METHYL AZELAALDEHYDATE FROM OZONOLYSIS OF
COMMERCIAL METHYL OLEATE.
William R. Miller and Danny Joe Moore.
U.S. Patent 3,322,798. May 30, 1967.

DERIVATIVES OF METHYL 9,9-DIMETHOXYNONANOATE.
Everett H. Pryde, John C. Cowan, and Danny Joe Moore.
U.S. Patent 3,330,840. July 11, 1967.

COMPOSITIONS FOR INCREASING THE DISPERSION STABILITY OF TITANIUM DIOXIDE
PIGMENT.
Raymond Noel Faulkner and Edwin Enfield Berry.
U.S. Patent 3,343,974. September 26, 1967.

SOLVENT FOR OBTAINING VERY HIGH YIELDS OF ALDEHYDIC PRODUCTS FROM SOYBEAN OIL.
D. Joe Moore.
U.S. Patent 3,349,106. October 24, 1967.

PIGMENT DISPERSANTS COMPRISING PHOSPHONIC ACID DIELS-ALDER ADDUCTS OF VEGETABLE
OIL MATERIALS.
Raymond Noel Faulkner and Nirmal Sen.
U.S. Patent 3,354,104. November 21, 1967.

ALKALI ISOMERIZATION OF CREPENYNIC ACID TO 8,10,12-OCTADECATRIENOIC ACID.
Marvin O. Bagby and Kenneth L. Mikolajczak.
U.S. Patent 3,356,699. December 5, 1967.

